

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Via EFS-Web  
COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

**POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO**

Dear Sir:

I hereby appoint practitioners associated with Haynes and Boone Customer Number **27683**, as my/our attorney(s) or agent(s) to prosecute the applications identified in Attachment A, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the applications listed in Attachment A to Customer Number **27683**.

**SpringWorks, LLC**, is the Assignee of record of the entire interest in the applications identified in Attachment A by virtue of the assignment recorded in the Reel and Frame numbers listed, or for which a copy therefore is attached, in Attachment A.

**SPRINGWORKS, LLC**

By: \_\_\_\_\_

Name: Douglas A. Kelley

Title: Receiver

**Attachment A**  
**Power of Attorney to Prosecute Applications Before the USPTO**

Applicant/Patent Owner: **SpringWorks LLC** hereby states that they are the assignee of the entire right, title and interest as listed below by virtue of an assignment from the inventor(s) of the patent application/patent. The assignment was recorded in the United States Patent and Trademark Office at the Reel and Frame number listed below or for which a copy therefore is attached.

Attorney Docket No.	Application Number / Patent Number	Appl. Date/ Issued Date	Inventors	Title	Current Owner	Chain of Title	Assignment Reel/Frame	Recorded Date
43668.3	11/191,643	7/27/2005	H. Zhang M. Narasimhan R. Mullapudi R. Demaray	Biased Pulse DC Reactive Sputtering Of Oxide Films	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014766 / 0601 20134 / 0102	12/2/2003 11/19/2007
43668.4	11/100,856	4/6/2005	T. Pan R. Demaray Y. Chen Y. Xie R. Pethe	Mode Size Converter For A Planar Waveguide	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	020035 / 0110 20134 / 0102	10/30/2007 11/19/2007
43668.5	10/850,968	5/20/2004	R. Demaray M. Narasimhan	Transparent Conducive Oxides	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014945 / 0661 20134 / 0102	8/4/2004 11/19/2007
43668.22	10/650,461	8/27/2003	D. Dawes	Optically Coupling Into Highly Uniform Waveguides	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014897 / 0768 20134 / 0102	1/16/2007 11/19/2007
43668.39	11/726,972	3/22/2007	R. Demaray H. Zhang M. Narasimhan V. Milonopoulou	Energy Conversion And Storage Devices By Physical Vapor Deposition Of Titanium And Titanium Oxides And Sub-Oxides	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014948 / 0097 20134 / 0102	8/5/2004 11/19/2007
43668.44	11/297,057	12/7/2005	H. Zhang R. Demaray M. Shao	Deposition Of LiCoO <sub>2</sub>	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	017196 / 0699 20134 / 0102	12/21/2006 11/19/2007
43668.53	11/218,652	9/2/2005	H. Zhang R. Demaray	Deposition Of Perovskite And Other Compound Ceramic Films From Dielectric Applications	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	016821 / 0220 20134 / 0102	11/28/2005 11/19/2007
43668.6	10/291,179 US Pat No. 7,404,877	ISSUED - 7/29/08	R. Demaray, V. Milonopoulou	Low temperature zirconia based thermal barrier layer by PVD	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014756 / 0416 20134 / 0102	12/2/2003 11/19/2007

TAK

Initial:

## Attachment A

### Power of Attorney to Prosecute Applications Before the USPTO

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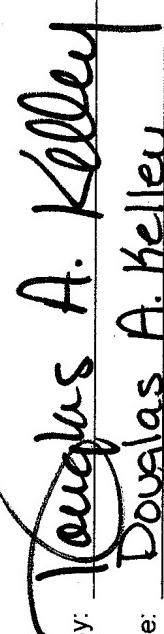
Attorney Docket No.	Application Number / Patent Number	Appl. Date/ Issued Date	Inventors	Title	Current Owner	Chain of Title	Assignment Reel/Frame	Recorded Date
43668.8	09/903,050 US Pat No. 6,506,289	ISSUED - 1/14/03	R. Demaray, K. Wang, R. Mullapudi, D. Stadler, H. Zhang, R. Pethe	Planar optical devices and methods for their manufacture	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	012010 / 0318 20134 / 0102	07/10/2001 11/19/2007
43668.9	10/288,278 US Pat No. 6,827,826	ISSUED - 12/7/04	R. Demaray, K. Wang, R. Mullapudi, D. Stadler, H. Zhang, R. Pethe	Planar optical devices and methods for their manufacture	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	012010 / 0318 20134 / 0102	07/10/2001 11/19/2007
43668.13	09/766,463 U.S. Pat No. 6,533,907	ISSUED - 3/18/03	R. Demaray, J. Shan, K. Wang, R. Mullapudi	Method of Producing amorphous silicon for hard mask and waveguide applications	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	011504 / 0738 20134 / 0102	01/19/2001 11/19/2007
43668.14	09/903,081 US Pat No. 7,469,558	ISSUED - 12/30/08	R. Demaray, K. Wang, R. Mullapudi, Q. Zhu, H. Zhang, H. Ackler, J. Egermeier, R. Pethe	As-deposited planar optical waveguides with low scattering loss and methods for their manufacture	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	012010 / 0752 20134 / 0102	07/10/2001 11/19/2007
43668.15	10/101,492 US Pat No. 6,884,327	ISSUED - 4/26/05	T. Pan, R. Demaray, Y. Chen, Y. Xie, R. Pethe	Mode size converter for a planar waveguide	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	020035 / 0110 20134 / 0102	10/30/2007 11/19/2007
43668.17	10/101,863 US Pat No. 7,378,356	ISSUED - 5/27/08	H. Zhang, M. Narasimhan, R. Mullapudi, R. Demaray	Biased pulse DC reactive sputtering of oxide films	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014766 / 0601 20134 / 0102	12/2/2003 11/19/2007
43668.21	10/954,182 US Pat No. 7,381,657	ISSUED - 6/30/08	H. Zhang, M. Narasimhan, R. Mullapudi, R. Demaray	Biased pulse DC reactive sputtering of oxide films	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014766 / 0601 20134 / 0102	12/2/2003 11/19/2007
43668.19	11/228,834 US Pat No. 7,544,276	ISSUED - 6/9/09	H. Zhang, M. Narasimhan, R. Mullapudi, R. Demaray	Biased pulse DC reactive sputtering of oxide films	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014766 / 0601 20134 / 0102	12/2/2003 11/19/2007

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Attorney Docket No.	Application Number / Patent Number	Appl. Date/ Issued Date	Inventors	Title	Current Owner	Chain of Title	Assignment Reel/Frame	Recorded Date
43668.20	11/228,717 U.S. Pat No. 7,413,998	ISSUED - 8/19/08	H. Zhang, M. Narasimhan, R. Mullapudi, R. Demaray	Biased pulse DC reactive sputtering of oxide films	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014766 / 0601 20134 / 0102	12/2/2003 11/19/2007
43668.25	10/789,953 US Pat No. 7,205,662	ISSUED - 4/17/07	M. Narasimhan, P. Brooks, R. Demaray	Dielectric Barrier Layer Films	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014948 / 0111 20134 / 0102	08/05/2004 11/19/2007
43668.32	11/228,805 US Pat No. 7,262,131	ISSUED - 8/28/07	M. Narasimhan, P. Brooks, R. Demaray	Dielectric Barrier Layer Films	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014948 / 0111 20134 / 0102	08/05/2004 11/19/2007
43668.34	10/851,542 US Pat No. 7,238,628	ISSUED - 7/3/07	R. Demaray, H. Zhang, M. Narasimhan, V. Milonopoulou	Energy Conversion and Storage Devices by Physical Vapor Deposition of Titanium and Titanium Oxides and Sub-Oxides	SpringWorks LLC	From Inventors to Symmorphix From Symmorphix to SpringWorks LLC	014948 / 0097 20134 / 0102	8/5/2004 11/19/2007

SpringWorks LLC

  
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